



PCM4-H77 - Marine Computer

SCIGATE AUTOMATION (S) PTE LTD

No.1 Bukit Batok Street 22 #01-01 Singapore 659592

Tel: (65) 6561 0488

Fax: (65) 6562 0588

Email: sales@scigate.com.sg

Web: www.scigate.com.sg

Business Hours: Monday - Friday 8.30am - 6.15pm



PCM4-H77 enables the new Ivy Core i3, Core i5 and Core i7 Intel CPU for marine and naval mission critical applications.

PCM4- H77 is tested for full compliance to IACS E10, IEC60945, EN61000-6-2 and EN61000-6-4 and holds certificates from major class societies.

The PCM4 cabinet allows for flexible installation, bolted to a surface using the mounting-angles, and/or mounted in a 19" rack using the optional "rack-ears" and handles.

The **PCM4- H77** features a new 5 $\frac{1}{4}$ " Option that combines a Removable Solid State Drive and a Slide-in DVD drive.

- Thermal and mechanical designed cabinet.
- State-of-the-art Computer technology.
- Intel **H77** Chipset
- Ivy Core i3, i5 and i7 Intel CPU
- Intel HD Graphics
- Rugged and compact design.
- Vibration-proof hard disk drive.
- High grade low noise fan.
- Compliance with IEC60945 ed. 4 and IACS E10 rev. 5
- Holds major type-approval certificates.

Specifications

PCM4-H77 - General

CPU:	Core™ i3-3220 (2 Cores, 4 Threads) <i>Optional Core™ i5-3550S (4C/4T)</i> <i>Optional Core™ i7-3770 (4C/8T)</i>
Chipset:	Intel® H77 Express <i>64Bits, Hyper-Threading and Virtualization Technology with Enhanced SpeedStep® and Turbo Boost Technology</i> <i>5GT/s Direct Media Interface</i>
Memory:	1 GB DDR3 RAM 1066 MHz (Standard) Optional Upgrades <i>4 DIMM sockets supporting up to a total of 16GB DDR3 1066/1333/1600 RAM</i>
Video:	On-CPU Intel HD Graphics 2500 (Core i3/i5) / 4000 (Core i7) <i>The maximum supported resolution is 1900 x 1200 (WUXGA)</i> <i>DirectX 10.1 and OpenGL 3.0 compliant</i> <i>DirectX 11.0 CS4.0 only / Shader model 4.0</i> <i>Dual independent display support</i> <i>Optional PCIe x16 graphics card</i>
Audio:	10-channel (7.1 + 2) Intel High Definition Audio (Realtek ALC892 audio Codec)
Ethernet:	10/100/1000 Mbit/sec Ethernet (RJ45) – onboard
Hard Disk Drive:	100+GB 2.5", SATA (Standard) Optional Upgrades <i>Sizes up till 500GB, 24/7 rated disk, 2.5" SATA</i> <i>Solid State Disc 80,100,120,160,200... 800 GB</i>
5¼" drive bay:	DVD-R/W Drive (SATA interface) <i>Optional Combined Removable Solid State disk drive and Slide-in DVD drive</i>

PCM4-H77 - Ports

Video:	HDMI+DVI-I + DisplayPort video out
Audio:	5x 3.5mm jack socket, Optical S/PDIF out
Ethernet:	1x RJ45
Serial:	<i>Optional 1 x RS232 un-isolated. Routed to back from Motherboard header.</i>
USB:	4x USB 3.0 ports (2 on back and 2 on internal header) 10x USB 2.0 ports (4 on back, 2 on internal header, 2 via Mini PCIe and 2 accessible from front)
SATA:	RAID 0,1,5,10 supported by onboard Intel Rapid Storage Technology 2x 6.0Gb/s, 3x 3.0Gb/s (1 port shared with mSATA on Mini PCIe)
eSATA:	1x eSATA 3.0Gb/s (on back)
Expansion Slots:	1x PCI Express x16, 1x PCI Express x4, 1x PCI Express x1, 3x PCI 1x PCI Express Full-/Half-Mini Card slot with support for mSATA

PCM4-H77 – Power

Standard:	90-264 VAC, 50-60 Hz, max 300 Watt Typ 35-130Watts
Automotive:	18-36 VDC max 300 Watt Typ 35-130Watts

PCM4-H77 – Environmental

Operating Temperature:	-15 to 55 °C
Storage Temperature:	-25 to 70 °C
Relative Humidity:	8 to 90 %

PCM4-H77 - Approvals

CE Mark:	EN61000-6-2 & EN61000-6-4
Marine:	IACS E10 rev. 5 & IEC 60945 Ed. 4
Type Approvals:	DNV, ABS <i>For latest marine class approvals – see www.isic-systems.com</i>

PCM4-H77 - Dimensions

Basic Version:	420 x 132 (3U) x 380 mm
Brackets:	Mounting-angles - Optional 19" brackets for 19" rack-mount (on shelf)
Weight:	11 Kg